

# Skeleton-Loader

**Skeleton Loader** The `<aava-skeleton>` component is a versatile loading placeholder that provides smooth animations and multiple shape options to create engaging loading states. It helps improve perceived performance by showing users that content is loading, reducing perceived wait times and providing visual feedback during data fetching operations.

How to use ■ import { AavaSkeletonComponent } from "@aava/play-core";

**Basic Usage** ■ A simple skeleton with default rectangle shape and wave animation.

Angular Preview Code

```
<!-- Default skeleton for text content --> <aava-skeleton width = "100%" height = "20px" shape = "rectangle" animation = "wave"></aava-skeleton> <!-- Shorter text line --> <aava-skeleton width = "80%" height = "16px" shape = "rectangle" animation = "wave"></aava-skeleton> <!-- Even shorter text line --> <aava-skeleton width = "60%" height = "16px" shape = "rectangle" animation = "wave"></aava-skeleton>
```

**Shapes** ■ The skeleton component supports multiple shapes for different content types.

Angular Preview Code

```
<!-- Rectangle --> <aava-skeleton width = "200px" height = "20px" shape = "rectangle" animation = "wave"></aava-skeleton> <!-- Circle --> <aava-skeleton width = "80px" height = "80px" shape = "circle" animation = "pulse"></aava-skeleton> <!-- Rounded --> <aava-skeleton width = "150px" height = "100px" shape = "rounded" animation = "wave"></aava-skeleton> <!-- Square --> <aava-skeleton width = "100px" height = "100px" shape = "square" animation = "wave"></aava-skeleton>
```

**Custom Styling** ■ Customize the skeleton with different colors, sizes, and background colors.

Angular Preview Code

```
<!-- Light blue background --> <aava-skeleton width = "200px" height = "20px" shape = "rectangle" animation = "wave" backgroundColor = "#e3f2fd"></aava-skeleton> <!-- Light purple background --> <aava-skeleton width = "200px" height = "20px" shape = "rectangle" animation = "pulse" backgroundColor = "#f3e5f5"></aava-skeleton> <!-- Light green circle --> <aava-skeleton width = "80px" height = "80px" shape = "circle" animation = "wave" backgroundColor = "#e8f5e8"></aava-skeleton> <!-- Light orange rounded --> <aava-skeleton width = "150px" height = "100px" shape = "rounded" animation = "pulse" backgroundColor = "#fff3e0"></aava-skeleton>
```

**Card Skeleton** ■ Create a complete card skeleton with multiple elements.

Angular Preview Code

```
<div *ngFor = "let element of cardSkeletonElements; let i = index" class = "skeleton-element" [class.title] = "i === 1" [class.description] = "i > 1"> <aava-skeleton [width] = "element.width" [height] = "element.height" [shape] = "element.shape" [animation] = "element.animation"></aava-skeleton> </div>
```

cardSkeletonElements = [ { width : "100%", height : "200px", shape : "rounded" as const , animation : "wave" as const , description : "Card Image" , } , { width : "70%", height : "20px" , shape : "rectangle" as const , animation : "wave" as const , description : "Card Title" , } , { width : "100%" , height : "16px" , shape : "rectangle" as const , animation : "wave" as const , description : "Card Description Line 1" , } , { width : "100%" , height : "16px" , shape : "rectangle" as const , animation : "wave" as const , description : "Card Description Line 2" , } , { width : "40%" , height : "16px" , shape : "rectangle" as const , animation : "wave" as const , description : "Card Description Line 3" , } , ] ;

**List Skeleton** ■ Build list skeletons for data tables and content lists.

Angular Preview Code

```
Features ■ Multiple Shapes ■ Rectangle : Default shape for text lines and content blocks  
Circle : Perfect for avatars and profile pictures  
Rounded : Soft corners for modern UI elements  
Square : Sharp corners for structured content  
Animation Types ■ Wave : Smooth shimmer effect that moves across the skeleton  
Pulse : Gentle fade in/out effect for subtle loading states  
Customization ■ Flexible Sizing : Custom width and height for any content type  
Color Control : Customizable background and animation colors  
Responsive Design : Adapts to different screen sizes  
Performance Optimized : Lightweight animations with minimal impact  
Accessibility ■ Screen Reader Support : Proper ARIA attributes for loading states  
Reduced Motion : Respects user's motion preferences  
High Contrast : Works with high contrast mode settings  
Focus Management : Proper focus handling during loading  
API Reference ■ Inputs ■ Property Type  
Default Description width string '100%'  
Width of the skeleton element height string '20px'  
Height of the skeleton element shape ShimmerShape 'rectangle'  
Shape of the skeleton element animation ShimmerAnimation 'wave'  
Animation type for the skeleton backgroundColor string '#e0e0e0'  
Background color of the skeleton
```

skeletonType 'tableList' | 'table' 'tableList' Type of skeleton layout rows number 5 Number of rows in the skeleton layout columns number 5 Number of columns in the skeleton layout isLoading boolean true Whether to show the skeleton Types ■ ShimmerShape ■ type ShimmerShape = "rectangle" | "circle" | "rounded" | "square" ; ShimmerAnimation ■ type ShimmerAnimation = "wave" | "pulse" ; CSS Classes ■ The component provides several CSS classes for styling: Class Name Description .shimmer-container Main skeleton container .shimmer-item Base skeleton element .shimmer-rectangle Rectangle shape styling .shimmer-circle Circle shape styling .shimmer-rounded Rounded shape styling .shimmer-square Square shape styling .shimmer-animation-wave Wave animation styling .shimmer-animation-pulse Pulse animation styling CSS Custom Properties ■ The component uses CSS custom properties for theming: Property Description --skeleton-border-radius Border radius for rectangle shape --skeleton-rounded-radius Border radius for rounded shape --skeleton-wave-duration Duration of wave animation --skeleton-pulse-duration Duration of pulse animation --skeleton-wave-opacity Opacity for wave animation --skeleton-pulse-opacity Opacity for pulse animation --skeleton-background-color Background color of skeleton --skeleton-gradient-color-start Start color for gradient animation --skeleton-gradient-color-end End color for gradient animation --skeleton-animation-timing Timing function for skeleton animations --skeleton-animation-easing Easing function for skeleton transitions Best Practices ■ Content Matching ■ Match Content Size : Make skeleton dimensions match the actual content Use Appropriate Shapes : Choose shapes that represent the actual content Maintain Layout : Keep skeleton layout consistent with loaded content Consider Spacing : Include proper spacing between skeleton elements Performance ■ Limit Skeleton Count : Don't show too many skeletons at once Use Appropriate Duration : Keep animations smooth but not distracting Consider Motion Preferences : Respect user's motion preferences Optimize for Mobile : Ensure good performance on mobile devices User Experience ■ Show Loading State : Always indicate when content is loading Provide Context : Use skeletons that give users an idea of what's coming Smooth Transitions : Ensure smooth transition from skeleton to content Consistent Timing : Keep skeleton duration consistent across the app Accessibility ■ Screen Reader Support : Provide proper loading announcements Reduced Motion : Support users who prefer reduced motion High Contrast : Ensure visibility in high contrast mode Focus Management : Handle focus properly during loading states Accessibility Guidelines ■ Screen Reader Support ■ Loading Announcements : Provide clear loading state announcements Content Description : Describe what content is loading Progress Indication : Indicate loading progress when possible State Changes : Announce when content finishes loading Motion and Animation ■ Reduced Motion : Respect prefers-reduced-motion media query Animation Duration : Keep animations smooth but not distracting Motion Alternatives : Provide alternatives for users who can't see animations Performance : Ensure animations don't cause performance issues Visual Design ■ High Contrast : Ensure visibility in high contrast mode Color Independence : Don't rely solely on color for information Focus Indicators : Provide clear focus indicators Consistent Styling : Maintain consistent skeleton styling Keyboard Navigation ■ Focus Management : Handle focus properly during loading Tab Order : Maintain logical tab order Skip Links : Provide skip links for keyboard users Loading States : Indicate loading state to keyboard users Responsive Behavior ■ Mobile Adaptations ■ The skeleton component automatically adapts to mobile screens: Touch Optimization : Optimized for touch interactions Viewport Adaptation : Adapts to different mobile viewport sizes Performance : Optimized performance for mobile devices Battery Consideration : Efficient animations for battery life Breakpoint Behavior ■ Desktop (>768px) : Full skeleton with all features Mobile ( $\leq 768px$ ) : Optimized skeleton for mobile screens Content Scaling : Skeleton scales appropriately with content Animation Performance : Optimized animations for different devices Content Considerations ■ Flexible Sizing : Skeleton adapts to different content sizes Layout Preservation : Maintains layout consistency across devices Loading States : Consistent loading experience across platforms Performance : Efficient rendering on all device types

```
<!-- Default skeleton for text content -->
<aava-skeleton
  width="100%"
  height="20px"
  shape="rectangle"
  animation="wave"
></aava-skeleton>

<!-- Shorter text line -->
<aava-skeleton
  width="80%"
  height="16px"
  shape="rectangle"
  animation="wave"
></aava-skeleton>

<!-- Even shorter text line -->
<aava-skeleton
  width="60%"
  height="16px"
  shape="rectangle"
  animation="wave"
></aava-skeleton>

<!-- Rectangle -->
<aava-skeleton
  width="200px"
  height="20px"
  shape="rectangle"
  animation="wave"
></aava-skeleton>

<!-- Circle -->
<aava-skeleton
  width="80px"
  height="80px"
  shape="circle"
  animation="pulse"
></aava-skeleton>

<!-- Rounded -->
<aava-skeleton
  width="150px"
  height="100px"
  shape="rounded"
  animation="wave"
></aava-skeleton>

<!-- Square -->
<aava-skeleton
  width="100px"
  height="100px"
  shape="square"
  animation="wave"
></aava-skeleton>
```

```
<!-- Light blue background -->
<aava-skeleton
  width="200px"
  height="20px"
  shape="rectangle"
  animation="wave"
  backgroundColor="#e3f2fd"
>
</aava-skeleton>

<!-- Light purple background -->
<aava-skeleton
  width="200px"
  height="20px"
  shape="rectangle"
  animation="pulse"
  backgroundColor="#f3e5f5"
>
</aava-skeleton>

<!-- Light green circle -->
<aava-skeleton
  width="80px"
  height="80px"
  shape="circle"
  animation="wave"
  backgroundColor="#e8f5e8"
>
</aava-skeleton>

<!-- Light orange rounded -->
<aava-skeleton
  width="150px"
  height="100px"
  shape="rounded"
  animation="pulse"
  backgroundColor="#fff3e0"
>
</aava-skeleton>
```

```
<div
  *ngFor="let element of cardSkeletonElements; let i = index"
  class="skeleton-element"
  [class.title]="i === 1"
  [class.description]="i > 1"
>
  <aava-skeleton
    [width]="element.width"
    [height]="element.height"
    [shape]="element.shape"
    [animation]="element.animation"
  ></aava-skeleton>
</div>

---

cardSkeletonElements = [
  {
    width: "100%",
    height: "200px",
    shape: "rounded" as const,
    animation: "wave" as const,
    description: "Card Image",
  },
  {
    width: "70%",
    height: "20px",
    shape: "rectangle" as const,
    animation: "wave" as const,
    description: "Card Title",
  },
  {
    width: "100%",
    height: "16px",
    shape: "rectangle" as const,
    animation: "wave" as const,
    description: "Card Description Line 1",
  },
  {
    width: "100%",
    height: "16px",
    shape: "rectangle" as const,
    animation: "wave" as const,
    description: "Card Description Line 2",
  },
  {
    width: "40%",
    height: "16px",
    shape: "rectangle" as const,
    animation: "wave" as const,
    description: "Card Description Line 3",
  },
];
```

■ No code found